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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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11/17/2003

Luc Orino

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EXAMINER

HOANG, DANIEL L

ART UNIT

PAPER NUMBER

2436

MAIL DATE

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10/28/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/714,178	Applicant(s) ORINO ET AL.	
	Examiner DANIEL L. HOANG	Art Unit 2436	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 7/8/08.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 and 10-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7, 10-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>9/17/08, 10/01/08</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION***Response to Arguments***

Applicant's arguments, see arguments/remarks, filed 7/08/08, with respect to the rejection(s) of claim(s) 1-7, 10-17 under 35 USC 102 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Alverson, US Patent No. 7020767.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 1-7 and 10-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gonzales, US Patent No. 5488688, and further in view of Alverson, US Patent No. 7020767.

2. As per claims 1 and 11, Gonzales teaches:

A processor operable in a plurality of modes, and a plurality of domains, said plurality of domains comprising a first domain and a second domain, the processor comprising:

monitoring logic configured to perform a debug or trace function to monitor said processor and to capture diagnostic data in response to performing said debug or trace function;

[see fig. 1] element 23 is viewed as the claimed "monitoring logic", element 21 is viewed as the claimed "processor", and element 24 is viewed as the "debug function".

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a storage element operable to contain at least one control parameter;

[see col. 3, lines 29-32]

control logic operable to control said monitoring logic in dependence on said at least one control parameter and the domain in which said processor is operating, to suppress capturing of diagnostic data relating to predetermined activities of said processor in said first domain.

[see col. 3, lines 34-39]

Gonzales is mute in teaching that the processor is operable to operate in two different domains nor does Gonzales teach that while diagnostic data capture is being suppressed in one domain, capturing of diagnostic data in the second domain is allowed. For this limitation, examiner relies on the Alverson reference.

Alverson teaches a processor that supports multiple protection domains (see col. 1, lines 30-33 and col. 2, lines 56-57). It would have been obvious to one of ordinary skill in the art to modify the processor taught by Gonzales to utilize the multiple domain protection taught by Alverson so that multiple user programs can be executing simultaneously within one processor (col. 1, lines 32-33). Alverson also teaches that two events can be processed simultaneously within one processor (see col. 7, lines 18-30). This is viewed as being analogous to the claimed "allowing capture of diagnostic data" in one domain" while suppressing it in another domain.

As per claims 2 and 12, Gonzales teaches:

A processor according to claim 1, wherein the first domain is a secure domain and the second domain is a non-secure domain, said processor being operable such that when executing a program in a secure mode within said secure domain said program has access to secure data which is not accessible when said processor is operating in a non-secure mode within said non-secure domain.

[see column 3, lines 40-53, wherein the cited first mode is viewed as the non-secure mode and the cited second mode is viewed as the secure mode.]

As per claims 3 and 13, Gonzales teaches:

A processor according to claim 1, wherein the at least one control parameter provides an indication of said domain of operation of the processor, said control logic being operable to suppress capturing of diagnostic data when said processor switches from second to first domain.

[see col. 3, lines 34-39, wherein the cited signal is viewed to be analogous to the claimed "control parameter".]

As per claims 4 and 14, Gonzales teaches:

A processor according to claim 1, wherein said at least one control parameter identifies an application, said control logic being operable to suppress capturing of diagnostic data when said processor switches from an identified application in said first domain to an application in said first domain not identified by said at least one control parameter.

[see column 4, lines 30-38]

As per claims 5 and 15, Gonzales teaches:

A processor according to claim 1, wherein said first domain comprises a plurality of modes and said at least one control parameter identifies a particular mode within said first domain, said control logic being operable to suppress capturing of diagnostic data when said processor switches between an identified mode within said first domain and a mode within said first domain not identified by said at least one control parameter.

[see column 3, lines 40-53]

As per claims 6 and 16, Gonzales teaches:

A processor according to claim 5, wherein said plurality of modes in said first domain comprise a user mode and a privileged mode.

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[see rejection of claim 2, wherein the first mode is a user mode and the second mode is a privileged mode.]

As per claims 7 and 17, Gonzales teaches:

A processor according to claim 1, wherein said control logic is operable to control said monitoring logic to resume capturing of diagnostic data when said processor switches back from said predetermined activity to an activity for which capturing of diagnostic data is not suppressed.

[see column 3, lines 60-65, and col. 4, lines 1-3]

As per claim 10, Gonzales teaches:

A processor according to claim 1, wherein said control logic suppresses capture of said diagnostic data by removing power input to the monitoring logic.

[see column 6, lines 41-55]

Conclusion

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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- *. Any response to this Office Action should be **faxed to** (571) 273-8300 **or mailed to**:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Hand-delivered responses should be brought to

Customer Service Window
Randolph Building
401 Dulaney Street
Alexandria, VA 22314

- *. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel L. Hoang whose telephone number is 571-270-1019. The examiner can normally be reached on Monday - Thursday, 8:00 a.m. - 5:00 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser Moazzami can be reached on 571-272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Daniel L. Hoang/

Examiner, Art Unit 2436

/Nasser G Moazzami/

Supervisory Patent Examiner, Art Unit 2436